

Probability (Prepared by Jincy A.J)

Questions and Answers

1. Given that E and F are events, such that $P(E) = 0.6$, $P(F) = 0.3$ and $P(E \cap F) = 0.2$, find $P(E|F)$ and $P(F|E)$.

Solution:

Given $P(E) = 0.6$, $P(F) = 0.3$ and $P(E \cap F) = 0.2$

We know that by the definition of conditional probability,

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

By substituting the values we get

$$\Rightarrow P(E|F) = \frac{P(E \cap F)}{P(F)} = \frac{0.2}{0.3} = \frac{2}{3}$$

$$\text{And } \Rightarrow P(F|E) = \frac{P(E \cap F)}{P(E)} = \frac{0.2}{0.6} = \frac{2}{6} = \frac{1}{3}$$

2. Compute $P(A|B)$, if $P(B) = 0.5$ and $P(A \cap B) = 0.32$

Solution:

Given: $P(B) = 0.5$ and $P(A \cap B) = 0.32$

We know that by definition of conditional probability,

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

Now by substituting the values we get

$$\Rightarrow P(A|B) = \frac{0.32}{0.5} = \frac{32}{50} = \frac{16}{25}$$

3. If $P(A) = 0.8$, $P(B) = 0.5$ and $P(B|A) = 0.4$, find
(i) $P(A \cap B)$

2013 Mathematics Vision Project Answers Probability

Annelies Wilder-Smith



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From Is to Ought: The Place of Normative Models in the Study of Human Thought Shira Elqayam, David E. Over, 2016-08-12 In the study of human thinking two main research questions can be asked Descriptive Q What is human thinking like Normative Q What ought human thinking be like For decades these two questions have dominated the field and the relationship between them generated many a controversy Empirical normativist approaches regard the answers to these questions as positively correlated in essence human thinking is what it ought to be although what counts as the ought standard is moot In contemporary theories of reasoning and decision making this is often associated with a Panglossian framework an adaptationist approach which regards human thinking as a priori rational In contrast prescriptive normativism sees the answers to these two questions as negatively correlated Normative models are still relevant to human thought but human behaviour deviates from them quite markedly with the invited conclusion that humans are often irrational Prescriptive normativism often results in a Meliorist agenda which sees rationality as amenable to education Both empirical and prescriptive normativism can be contrasted with a descriptivist framework for psychology of human thinking Following Hume's strict divide between the is and the ought descriptivism regards the descriptive and normative research questions as uncorrelated or dissociated with only the former question suitable for psychological study of human behaviour This basic division carries over to the relation between normative ought rationality based on conforming to normative standards and instrumental is rationality based on achieving one's goals Descriptivist approaches regard the two as dissociated whereas normativist approaches tend to see them as closely linked with normative arguments defining and justifying instrumental rationality This research topic brings together diverse contributions to the continuing debate Featuring contributions from leading researchers in the field the e book covers a wide range of subjects arranged by six sections The standard picture Normativist perspectives In defence of soft normativism Exploring normative models Descriptivist perspectives Evolutionary and ecological accounts Empirical reports With a total of some 24 articles from 55 authors this comprehensive treatment includes theoretical analyses meta theoretical critiques commentaries and a range of empirical reports The contents of the Research Topic should appeal to psychologists linguists philosophers and cognitive scientists with research interests in a wide range of domains from language through reasoning judgment and decision making and moral judgment to epistemology and theory of mind philosophical logic and meta ethics

Bringing the Common Core Math Standards to Life Yvelyne Germain-McCarthy, Ivan Gill, 2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You'll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the

classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are using engaging strategies and tasks to teach algebra geometry trigonometry statistics mathematics across the curriculum and more A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts

Second Chance Hiring Mitch Pearlstein, 2025-11-13 Addressing both policy and socio cultural realities this book makes the economic and ethical case for hiring formerly incarcerated individuals affording them the chance for re entry into the workforce and thus society It examines successful re entry programs and offers practical tips for employers considering hiring former offenders

Mathematics for Social Justice Catherine A. Buell, Bonnie Shulman, 2021-11-17 Mathematics instructors are always looking for ways to engage students in meaningful and authentic tasks that utilize mathematics At the same time it is crucial for a democratic society to have a citizenry who can critically discriminate between fake and reliable news reports involving numeracy and apply numerical literacy to local and global issues This book contains examples of topics linking math and social justice and addresses both goals There is a broad range of mathematics used including statistical methods modeling calculus and basic algebra The range of social issues is also diverse including racial injustice mass incarceration income inequality and environmental justice There are lesson plans appropriate in many contexts service learning courses quantitative literacy reasoning courses introductory courses and classes for math majors What makes this book unique and timely is that the most previous curricula linking math and social justice have been treated from a humanist perspective This book is written by mathematicians for mathematics students Admittedly it can be intimidating for instructors trained in quantitative methods to venture into the arena of social dilemmas This volume provides encouragement support and a treasure trove of ideas to get you started The chapters in this book were originally published as a special issue of the journal PRIMUS Problems Resources and Issues in Mathematics Undergraduate Studies

The SAGE Encyclopedia of Theory in Science, Technology, Engineering, and Mathematics James Mattingly, 2022-09-21 The SAGE Encyclopedia of Theory is a landmark work that examines theory in general and the broad split between the hard and soft sciences a split that is being re examined as approaches to scientific questions become increasingly multidisciplinary

[Machine Learning for Ecology and Sustainable Natural Resource Management](#) Grant Humphries, Dawn R. Magness, Falk Huettmann, 2018-11-05 Ecologists and natural resource managers are charged with making complex management decisions in the face of a rapidly changing environment resulting from climate change energy development urban sprawl invasive species and globalization Advances in Geographic Information System GIS technology digitization online data availability historic legacy datasets remote sensors and the ability to collect data on animal movements via satellite and GPS have given rise to large highly complex datasets These datasets could be utilized for making critical management decisions but are often messy and difficult to interpret Basic artificial intelligence algorithms i e machine learning are powerful tools that are shaping the world and

must be taken advantage of in the life sciences In ecology machine learning algorithms are critical to helping resource managers synthesize information to better understand complex ecological systems Machine Learning has a wide variety of powerful applications with three general uses that are of particular interest to ecologists 1 data exploration to gain system knowledge and generate new hypotheses 2 predicting ecological patterns in space and time and 3 pattern recognition for ecological sampling Machine learning can be used to make predictive assessments even when relationships between variables are poorly understood When traditional techniques fail to capture the relationship between variables effective use of machine learning can unearth and capture previously unattainable insights into an ecosystem s complexity Currently many ecologists do not utilize machine learning as a part of the scientific process This volume highlights how machine learning techniques can complement the traditional methodologies currently applied in this field **Handbook of Research on**

Driving STEM Learning With Educational Technologies Ramírez-Montoya, María-Soledad,2017-02-01 Educational strategies have evolved over the years due to research breakthroughs and the application of technology By using the latest learning innovations curriculum and instructional design can be enhanced and strengthened The Handbook of Research on Driving STEM Learning With Educational Technologies is an authoritative reference source for the latest scholarly research on the implementation and use of different techniques of instruction in modern classroom settings Featuring exhaustive coverage on a variety of topics including data literacy student motivation and computer aided assessment this resource is an essential reference publication ideally designed for academicians researchers and professionals seeking current research on emerging uses of technology for STEM education *Forthcoming Books* Rose Army,2003 *Principal Leadership* ,2006

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Combinations permutations Outcomes vs events Probability and odds Probability with and without replacement Conditional probability Basic Statistics Emphasis on Types of studies Central tendency and outliers Measures of spread Properties of a probability distribution Z score and percentiles Box and whisker plot Organizing Presenting Data Emphasis on Two way frequency tables Plotting data Types of plots and graphs **What Do You Expect?** ,2006 **Between Never and Always** Margie Singer,Cliff Konold,Andee Rubin,1998 Emphasis on mathematical thinking and teaching strategies on how to interpret a probability as a statement of how often a repeatable will happen Students can also use activities to test their guessing skills and investigate the fairness of a number of popular games

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